



Aviation Maintenance Technology Diploma - 88 credits

Program Area: Aviation (Fall 2024)

*****REMEMBER TO REGISTER EARLY*****

Program Description

The Airframe and Powerplant maintenance technician diploma program trains students in the repair and scheduled maintenance of aircraft. This fully approved Federal Aviation Administration (FAA) program prepares graduates to repair and maintain commercial and general technically advanced aircraft found in today's market. Training will include study and hands-on experiences in reading and comprehending aircraft manuals, troubleshooting and repairing electrical malfunctions using electrical schematics, analyzing and repairing powerplant malfunctions, repair airframe structures and return aircraft to service, maintaining aircraft powerplant subsystems and determine their airworthiness in accordance with applicable FAA and manufacturer specifications.

This 88-credit Diploma seamlessly transfers to the Aviation Maintenance Technology AAS (103 credits).

Required Courses

Number	Name	Credits	Term
AMT 1450*	Fundamentals I	6	
AMT 1452*	Fundamentals II	6	
AMT 1454*	Aircraft Electrical	7	
AMT 1460*	Flight Controls and Avionics Systems	6	
AMT 1462*	Metallic Structures	7	
AMT 1464*	Non-Metallic Structures	6	
AMT 1470*	Aircraft Fuel and Landing Gear Systems	6	
AMT 1472*	Cabin Control and Inspection	6	
AMT 2410*	Reciprocating Engines I	7	
AMT 2412*	Propellers and Reciprocating Engine Repair	6	
AMT 2414*	Reciprocating Engine Inspection	6	
AMT 2420*	Turbine Engines I	7	
AMT 2422*	Turbine Engines II	6	
AMT 2430*	AMT Capstone	6	

Total Credits **88**

*Requires a prerequisite or instructor approval

Program Outcomes

- Students will successfully pass the required FAA written testing of an Airframe and Power Plant Mechanic
- Students will utilize appropriate technology as it pertains to the aviation industry
- Students will interpret various FAA Regulations that apply to maintenance in the aviation industry
- Students will apply appropriate safety work habits and procedures
- Students will apply principles of troubleshooting for various aircraft maintenance tasks
- Students will demonstrate the proper use of hand tools appropriate to the industry
- Students will use technical information provided by various aircraft manufacturers to perform aircraft maintenance
- Students will document various maintenance tasks according to FAA Regulations
- Students will read and interpret technical information found in the aircraft records
- Students will demonstrate the necessary skills to properly maintain an aircraft in an airworthy condition



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Pre-program Requirements

Successful entry into this program requires a specific level of skill in the areas of English, mathematics, and reading. Program entry will depend, in part, on meeting the prerequisites listed below:

English/Reading:

- Eligible for ENGL 1106 - College Composition I, or
- Completion of ENGL/READ 0950/0955 (or equivalent or higher).

Mathematics:

- Completion of MATH 0955 (or equivalent or higher).

There are other ways to qualify. Visit [Course Placement](https://lsc.edu/course-placement) (lsc.edu/course-placement) to find out more.

For interpretation of test results and selection of appropriate coursework; or general information about the program, admissions, financial aid, and getting started at LSC, contact the [professional advising team](mailto:advising@lsc.edu) (advising@lsc.edu.) at 218-733-7601

For more information about the Aviation Maintenance Technology Diploma including course descriptions, course prerequisites, the program report, and potential career opportunities, see the [program website](https://degrees.lsc.edu/aircraft-maintenance/) (https://degrees.lsc.edu/aircraft-maintenance/)

or

Faculty Advisor, [William Beecroft](mailto:william.beecroft@lsc.edu) (william.beecroft@lsc.edu) at 218-733-6925
Faculty Advisor, [Bill McMahan](mailto:bill.mcmahan@lsc.edu) (bill.mcmahan@lsc.edu) at 218-733-6971

Air Agency Certificate Number 6LRT617K



MINNESOTA STATE

CIP Code: 47.0607
Minnesota State Program ID: 13-555-4567
LSC Major ID: 3006

Created: 12/5/12
AASC Approval: 11/29/23
Updated: 2/1/24

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